

(12) United States Design Patent (10) Patent No.: Maiwald et al.

(45) **Date of Patent:**

US D1,018,469 S ** Mar. 19, 2024

(54) CHARGING ADAPTER

(71) Applicants: Christopher Eckhard Maiwald, Kowloon (HK); German Chan,

Kowloon (HK)

(72) Inventors: Christopher Eckhard Maiwald,

Kowloon (HK); German Chan,

Kowloon (HK)

(**) Term: 15 Years

(21) Appl. No.: 29/864,275

(22) Filed: May 17, 2022

(51) LOC (14) Cl. 13-03

U.S. Cl.

USPC **D13/146**; D13/133; D13/147

Field of Classification Search

USPC D8/396; D10/80, 114.1; D13/107, D13/118-120, 133, 146-147, 149, 151, D13/154, 156, 174, 182; D14/433;

D15/146; D23/226, 262; D24/138 CPC B60L 53/16; B60L 53/30; H01R 13/633; H01R 13/5202; H01R 13/5208; H01R 13/5219; H01R 13/5227; H01R 13/6275; H01R 2201/26; H01R 2107/00; Y02T 10/7072; Y02T 90/12; Y02T 90/14

See application file for complete search history.

(56)**References Cited**

U.S. PATENT DOCUMENTS

D663,692	S	ajk	7/2012	Sebald D13/133
D669,033	S		10/2012	Senk et al.
8,573,998	\mathbf{B}_{2}^{2}	2 *	11/2013	Ichio H01R 13/5227
				439/372
D700,143	\mathbf{S}	*	2/2014	Ichio D13/133
D702,649	S	ıķ.	4/2014	Ichio D13/174
D707,179	\mathbf{S}	*	6/2014	Smith D13/146
D716,233	S	*	10/2014	Lai D13/146

D743,893 S *	11/2015	Kuribayashi D13/146
D768,082 S	10/2016	Chuang
D797,052 S *	9/2017	Moseke D13/146
D806,038 S *	12/2017	Zhang D13/147
10,118,496 B2*	11/2018	Chuang H01R 13/5202
10,647,207 B2 *	5/2020	Rivas B60L 53/16
2013/0105219 A1*	5/2013	Osawa H01R 13/5208
		174/77 R
2015/0295344 A1*	10/2015	Sawada H01R 13/5219
		420/597

FOREIGN PATENT DOCUMENTS

EM 2740662 7/2015

OTHER PUBLICATIONS

Lectron, Date: Nov. 18, 2021, [online], [site visited Jun. 28, 2023]. Available from internet, https://www.amazon.com/Lectron-J1772-Tesla-Charging-Adapter/dp/B09M6KFV9T?th=1 (Year: 2021).* (Continued)

Primary Examiner - Shawn T Gingrich Assistant Examiner — Bryan N. Melvin (74) Attorney, Agent, or Firm — BOAG LAW, PLLC

(57)**CLAIM**

The ornamental design for a charging adapter, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a charging adapter showing my new design;

FIG. 2 is a left side view thereof;

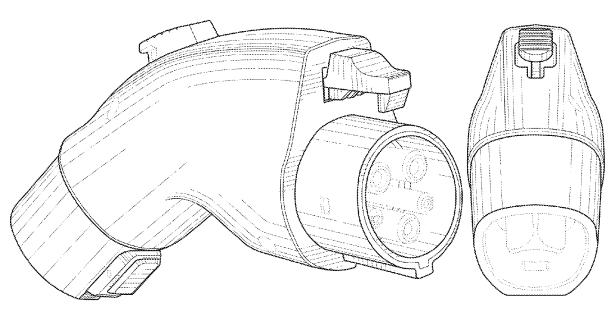
FIG. 3 is a right side view thereof;

FIG. 4 is a front view thereof; and,

FIG. 5 is a rear view thereof.

The broken lines in the drawings illustrate portions of the charging adapter that form no part of the claimed design.

1 Claim, 3 Drawing Sheets



US D1,018,469 S

Page 2

(56) References Cited

OTHER PUBLICATIONS

Lectron 2, Date: Aug. 23, 2021, [online], [site visited Jun. 28, 2023]. Available from internet, https://www.amazon.com/dp/B09DCTJCTV/(Year: 2021).*

Zencar, Date: Sep. 6, 2020, [online], [site visited Jun. 28, 2023]. Available from internet, https://www.amazon.com/dp/B0B3D78Q3Z (Year: 2020).*

Electric Car Charging Point Location. Car Charger Power Plug With Pin Isolated on White, Envato Market, https://photodune.net/item/electric-car-charging-point-location-car-charger-power-plug-with-pin-isolated-on-white/25717689, published Feb. 11, 2020.

Shanthi S, Connecting The Future: The State Of India's EV Connector Ecosystem, Inc42, Mar. 30, 2020, https://inc42.com/features/connecting-the-future-of-mobility-the-state-of-indias-ev-connector-ecosystem/.

Unknown, 40A Electric Vehicle Charging Connector EVSE Electric Car Type 1 EV Plug, Apr. 13, 2022, https://www.ebay.com/itm/193416903702.

Unknown, EV Charger, Portable 16A/32A Fast Charging Multi-Protection Car Charger with 16.4ft Extension Cord, Sipmle Operation Electric Vehicle Charging Station for Household Travel(16A-FU-A16D-C), Amazon.in, https://www.amazon.in/Multi-Protection-Extension-Operation-Household-16A-FU-A16D-C/dp/B099T8XCC2, Apr. 13, 2022.

Unkown, Batterycharge 5Pin | 1Phase | 16 AMP OCC11605, OSRAM Automotive, https://www.osram.com/ecat/BATTERYcharge% 205PIN%20-%201PHASE%20-%2016%20AMP-Charging% 20cables%20for%20electric%20vehicles-Battery%20care-Automotive/com/en/GPS01 3593957/ZMP 4062612/, Apr. 13, 2022.

Unkown, Buying an Ev, Nrma, Buying an EV, https://www.mynrma.com.au/cars-and-driving/electric-vehicles/ buying, Apr. 2022.

* cited by examiner

U.S. Patent Mar. 19, 2024

Sheet 1 of 3

US D1,018,469 S

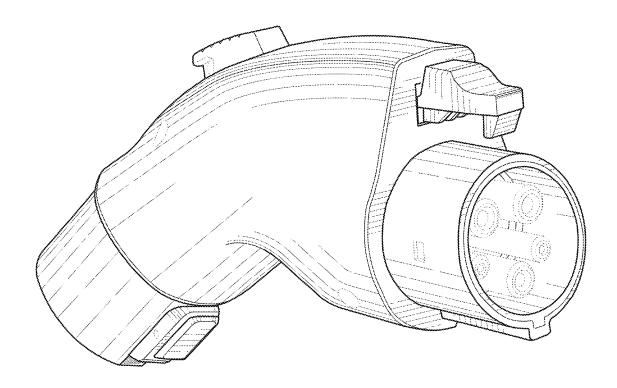
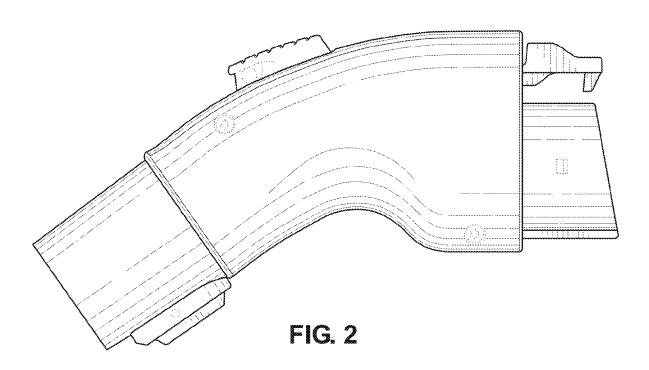
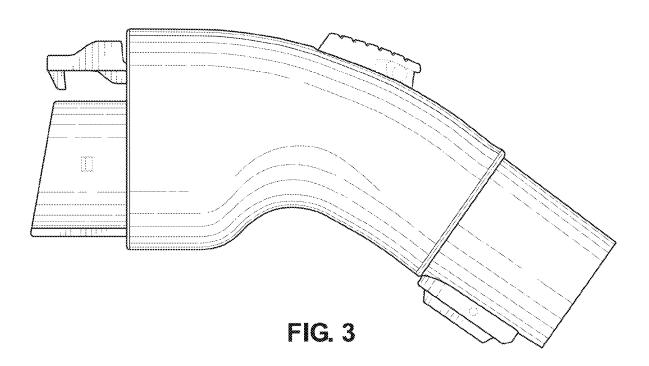


FIG. 1

U.S. Patent Mar. 19, 2024 Sheet 2 of 3

US D1,018,469 S





U.S. Patent Mar. 19, 2024

Sheet 3 of 3

US D1,018,469 S

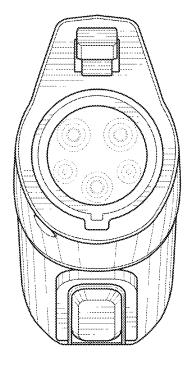


FIG. 4

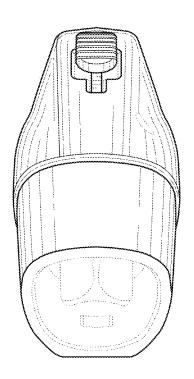


FIG. 5